

Rafael O. Fox

Texas A&M University-Corpus Christi
Science & Engineering, Engineering

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Education

MS, Texas A&M University - Kingsville, 1996.

BS, Texas A&M University - Kingsville, 1994.

Licensures and Certifications

Mechatronics, Amatrol Technology Transfer Institute. (2010 - Present).

EIT (Engineer in Training), NSPE. (1994 - Present).

Professional Employment

Instructor, Texas A&M University - Corpus Christi. (August 2010 - Present).

Teach courses in Mechanical Engineering and Engineering Technology

Adjunct, Texas A&M University Corpus Christi. (January 2001 - May 2010).

Teach Electrical and Mechanical Engineering Courses in an ABET accredited institution.

Sr. Applications Engineer, TT-Electronics-IRC. (April 2000 - July 2009).

Design and Develop Electronics Test Equipment.

Design, Develop and Validate electronic components.

Championed products from Design to Manufacturing.

Applications Engineer, TT Electronics. (January 1997 - March 2000).

Test Electronic Components and Develop End-of-Line Test Equipment. Interface with suppliers and customer to develop products.

Graduate Research Assistant, Texas A&M Kingsville. (January 1995 - December 1996).

Research Field Programmable Gate Arrays and help manage Laboratory Equipment

Professional Memberships

Institute of Electrical and Electronics Engineers

TEACHING

Teaching Experience

EEEN 3315, CIRCUIT ANALYSIS II

EEEN 3350, ELECTRONIC SYSTEMS DESIGN

EEEN 3418, MICROPROCESSORS MICROCONTROLLER

ENGR 1210, INTRODUCTION TO ENGINEERING

ENGR 1211, FOUNDATIONS OF ENGINEERING I

ENGR 1212, FOUNDATIONS OF ENGINEERING II

ENGR 1312, FOUNDATIONS OF ENGINEERING II

ENGR 2321, STATICS AND DYNAMICS

ENGR 2325, STATICS

ENGR 2326, DYNAMICS
ENGR 2460, CIRCUIT ANALYSIS
ENTC 2403, STATICS AND DYNAMICS
ENTC 2414, CIRCUIT ANALYSIS I
ENTC 3415, CIRCUIT ANALYSIS II
ENTC 3416, DIGITAL FUNDAMENTALS
ENTC 3418, MICROPROCESSORS-MICROCONTROLR
ENTC 3444, ELECTRONIC DEVICES-CIRCUITS I
ENTC 3450, ELECTRONIC SYSTEM DESIGN
ENTC 4322, PROGRAMMABLE LOGIC CONTROLLERS
ENTC 4420, EMBEDDED SYSTEMS
ENTC 4446, CONTROL SYSTEMS I
ENTC 4490, Reliability and Maintenance of Industrial Equipment

SCHOLARLY AND CREATIVE ACTIVITIES

Publications

Non-Refereed

Conference Proceedings

Fox, R. O., Bachnak, R., Chakinarapu, R. (2006). *Teaching Assembly Language With a Taste of Hardware* (4th ed., vol. JCSC, pp. 154-160). South Central Conference 2006.

Presentations

Fox, R. O. (Author & Presenter), Ashtijou, M. (Chair), "Design and Implementation of a Floating Point Multiplier," Engineering and Architecture Symposium 1996, Prairie View A&M University, Prairie View. (February 5, 1996).

Contracts, Grants and Sponsored Research

Grant

Fox, Rafael O. (Co-Principal), Coppinger, Tim (Co-Principal), Bachnak, Ray (Principal), "Instrumentation for Recruiting and Supporting Teaching," Sponsored by USDA, Federal, \$150,000.00. (January 2003).

SERVICE

Department

Attendee, Meeting, First-Year Islander - Engineering Foundation classes. (September 2015).
Committee Member, ISLAND DAY. (February 2015).
Committee Member, ISLAND DAY. (October 2014).
Committee Chair, Amatrol - Automation Equipment Training. (March 2011).

College

Field Queuer, FIRST Tech Challenge - 2015-2016 First RES-Q. (January 2016).
Hardware Inspector, FIRST Tech Challenge - Ring it up! (February 2013).

Judge, The 2nd Coastal Bend Engineering Competition. (March 2010).

Professional

Book Review, Oxford University Press. (February 2012).

Attendee, Meeting, AEP Gridsmart. (April 2011).

Reviewer, Journal Article, Journal of Real-Time Image Processing. (November 2010 - February 2011).